

Date: Mon, 29 Aug 94 10:02:40 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V94 #973
To: Info-Hams

Info-Hams Digest Mon, 29 Aug 94 Volume 94 : Issue 973

Today's Topics:

Amateur Radio: Elmers List Info and Administrivia
Communications Quarterly , was Qs on no code FCC license and Hardware
QST Subscription?
Ragchewing protocol
Route Z31ET
Why Some people hate Wayne Green

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available (by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text herein consists of personal comments and does not represent the official policies or positions of any party. Your mileage may vary. So there.

Date: Mon, 29 Aug 1994 11:00:15 GMT
From: gonix!pschleck@uunet.uu.net
Subject: Amateur Radio: Elmers List Info and Administrivia
To: info-hams@ucsd.edu

Posted-By: auto-faq 3.2.1.2
Archive-name: radio/ham-radio/elmers/admin
Revision: 1.9 08/28/94 11:22:19
Changes: Moved from unomaha.edu to gonix.com

This administrivia file and the companion Amateur Radio Elmers Resource Directory are intended for non-commercial distribution via Usenet. Any other uses, please E-mail for permission.

[Special note: My E-mail addresses have changed, reflecting a move to Greater Omaha Public Access Unix, which was motivated by a desire to seek a stable site for the Elmers List for some time to come. See my

signature below for the new addresses. My old E-mail addresses, at the University of Nebraska at Omaha, will probably work for the foreseeable future, but are not guaranteed.]

A Brief Historical Overview:

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If there is any one constant in the changing state of the communications art, it is that "Hams" (Amateur Radio Operators) have always been on the forefront of it. Rumors abound where the term "Ham" came from. Some of the more amusing are described in the list of Frequently Asked Questions for this newsgroup.

Regardless of origin of the name, a "Ham" is universally recognizable as one who experiments in radio and communications.

Whether it be constructing a low-power CW radio with vacuum tubes, or designing TCP/IP packet networks, such experimentation has historically spilled over into the mainstream such as was the case with Edwin Armstrong, who developed the regenerative oscillator and FM radio, or General Curtis LeMay (W6EZV) who was instrumental in making Single-Sideband the communications standard for the Strategic Air Command (1947-1992, now reorganized into a joint command called USSTRATCOM) and eventually the U.S. Air Force. Although packet-switching techniques originated from DARPA (Defense Advanced Research Projects Agency) and the ARPANet, no one can deny the tremendous influence that amateurs have had in demonstrating the viability of TCP/IP and AX.25 communications via radio links. The efforts of AMSAT (the Amateur Satellite Corporation), including the development of many ham satellites and the low-orbiting Microsats (communications satellites no bigger than a breadbox that use store-and forward packet techniques), have certainly advanced the state-of-the-art in communications, one of the defined purposes of the Amateur Radio Service, as recognized by international treaty.

Since in many cases hams are writing "the book", there is often no "book" or other established reference for a beginner to refer to. Traditionally, information has been passed on from ham to ham via word-of-mouth. Like many of the traditional crafts, a variation of the Master-Apprentice system has emerged, the Elmer-Novice relationship. Called "Elmers" because they are usually older and wiser, having the benefit of many years in the hobby, including several failed projects, and an electric shock or two, they have traditionally been the mainstay of amateur radio, and the source of many new hams, particularly those interested in working on emerging technologies.

Even more importantly, Elmers provided an outlet for the impatient newcomer who wanted "to know everything, and right away." Faced with

such a request, a good Elmer will smile and proceed to lead the novice through some project or operating experience. Several hours, days, or weeks later, the novice would have his answers, but would have earned them. Even better, the sense of accomplishment would boost the novice's confidence and nudge him or her down the road to being a model, experienced ham operator.

Many present hams feel that such an experience is missing today. In today's hustle-bustle world, the response to such natural curiosity and desire to learn is, more often than not, "I'm too busy" or "RTFM." As a result, the quality of new hams declines and the knowledge and operating habits they develop in their first formative months and years leave much to be desired. And the very same hams who claim that they "can't understand the new generation" also, in almost the same breath, lament about the "decline of amateur radio."

What is an Elmer today?

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An Elmer today is of any age, male or female, who has some expertise and is willing to share it with beginners. Elmers don't even need to be licensed amateurs, just people with knowledge in some area of electronics or communications technology.

What is a Usenet Elmer?

++++++

With the ever-widening scope of the Internet, and the amateur radio newsgroups on Usenet, the potential for Elmers to share their knowledge to a wide audience has never been greater. To that end, I have started to maintain a list of such Elmers. Volunteers need only send me their name, E-mail address, and area of expertise. I have set up an administrivia mailbox for this purpose (elmers-request@gonix.com, the default Reply-To: of this message).

Those desiring a more extensive list, or who need more specific assistance, are encouraged to contact Rosalie White, WA1ST0, Educational Services Manager at the American Radio Relay League, 225 Main St., Newington, CT 06111 or via electronic mail addressed to rwhite@arrl.org.

How may I obtain the latest copy of the Elmers List?

++++++

There are currently 7 ways of obtaining the Elmers List. Any site at least reachable by Internet E-mail can use options 3 or 4:

1. Usenet News: The latest copy of the list can be found in the

companion postings to this message, "Amateur Radio: Elmers Resource Directory [A-M]" and "Amateur Radio Elmers Resource Directory [N-Z]." Since the list is cross-posted to rec.radio.amateur.misc, rec.radio.info, rec.answers, and news.answers on the 1st of each month, with an expiration date 6 weeks into the future, there should always be a copy available at most news sites. Check your newsreader documentation for information about reading previously-read articles.

2. Anonymous FTP: If your site is directly connected to the Internet, you may retrieve the latest copy via File Transfer Protocol (FTP) from the following sites:

```
ftp.cs.buffalo.edu /pub/ham-radio/elmers*
rtfm.mit.edu      /pub/usenet/news.answers/radio/ham-radio/elmers/*
```

3. Mailing-List: Since the list is cross-posted to rec.radio.info, the latest copy may be obtained from the mailing-list gateway for that newsgroup (along with many other informational articles about radio) when it is published each month. To subscribe, send E-mail to:

listserv@ucsd.edu

and in the BODY (not the Subject) of the message, write:

subscribe radio-info

The server may not be able to determine your return address. In that case write:

subscribe radio-info (your E-mail address)

You should get an acknowledgement very shortly.

4. Mail-Server: If you don't want to read through the entire gateway of rec.radio.info, or want a copy of the list right away, send E-mail to:

mail-server@rtfm.mit.edu

and in the BODY (not the Subject) of the message, write:

```
send usenet/news.answers/radio/ham-radio/elmers/admin
send usenet/news.answers/radio/ham-radio/elmers/index
send usenet/news.answers/radio/ham-radio/elmers/list/a-m
send usenet/news.answers/radio/ham-radio/elmers/list/n-z
send usenet/news.answers/radio/ham-radio/elmers/diff
```

and the latest copy of the list should be sent to you E-mail within 24

hours (the mail-server uses batch priority to reduce system demand).

The last three services are experimental. I'm not terribly familiar with them, and cannot offer much technical support regarding their use. (I'd appreciate feedback on whether or not you find them useful, though.)

5. Internet Gopher: The latest copy of the list should be available from the following Gopher sites, all at standard port 70:

```
cc1.kuleuven.ac.be
jupiter.sun.csdl.unb.ca
gopher.univ-lyon1.fr
ftp.win.tue.nl
gopher.win.tue.nl
```

see also `comp.infosystems.gopher`

6. World-Wide Web (WWW): The latest copy of the list should be available from the following WWW site:

URL: <http://www.cis.ohio-state.edu:80/hypertext/faq/usenet>

under pages:

```
radio/ham-radio/elmers/admin
radio/ham-radio/elmers/index
radio/ham-radio/elmers/list/a-m
radio/ham-radio/elmers/list/n-z
radio/ham-radio/elmers/diff
```

see also `comp.infosystems.www`

7. Wide-Area Information Service (WAIS): The latest copy of the list should be available from the WAIS server at `rtfm.mit.edu` (standard port 210) in database "usenet."

see also `comp.infosystems.wais`

How may I contribute to the Elmers List?

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By using this resource, you are benefitting the net by obtaining assistance in the fastest and most efficient way possible. By volunteering to appear on this list, you are contributing to the good reputation of the radio-related newsgroups.

Thanks to all the volunteer Elmers, as well as courteous list users, for

making this service a success.

--
73, Paul W. Schleck, KD3FU

pschleck@gonix.com (personal mail)
elmers-request@gonix.com (Elmers List administrivia)

Date: Mon, 29 Aug 1994 14:11:37 GMT
From: psinntp!arrl.org!dnewkirk@uunet.uu.net
Subject: Communications Quarterly , was Qs on no code FCC license and Hardware
To: info-hams@ucsd.edu

David Stockton (dstock@hpqmdla.sqf.hp.com) wrote:
: Dave Newkirk (WJ1Z) (dnewkirk@arrl.org) wrote:

: : More news coming in a subsequent *QST*, but we have discovered that the
: : lower-cost answer--and one that should provide practically the same IMD
: : reduction at amateur frequencies--is to use *Motorola MPN3700* diodes
: : instead of the HPs.

: Did IMD testing get done at the LF end ? most PIN diodes have long
: enough periods for use above 10MHz, but parts that work well down to 1
: MHz are less common.

Working on it. Using good PINs should do better than non-PINs down through
at least 80 m. I realize that the issue is more complex because IMD-causing
sigs can include the mediumwave band, where even RF-optimized PINs generally
ain't so hot. The distinction between the two diode types blurs in that
area; I hope to look into some of the tradeoffs.

: : We will also show that 1N4007 rectifier diodes, although they contain PIN
: : structures that can provide reasonably good IMD performance compared to
: : intended-for-RF-switching PINs like the 3081 and MPN3700 *in forward
: : conduction*, *aren't* a suitable low-cost answer to the 3081 and 3700
: : because they must be *reverse*-biased to exhibit similar "turned off"
: : IMD dynamic range compared to 3081s and 3700s that simply have forward bias
: : removed.

: I remember seeing someone trying to use 1N4007s in a switch-mode
: PSU. The things were evidently so slow that they must be close to their
: limit of usefulness as a 60 Hz rectifier. 1N4007s have been used in 100W
: TR switches before now, but plenty of reverse bias voltage is essential
: to get isolation in the off state and this won't be available in a

: retrofit job.

: I wonder about the switching diodes at the inputs to the main IF
: filters, there may be a further benefit to close-in IMD of signals that
: pass the first IF. I've not tried this, but I feel suspicious about
: them. Measuring the IMD of crystal filters can be fun. Mixers and amplifiers
: can now be built at home, for pocket money, that make the quartz the
: limiting factor ! LF filters like the old European 1.4 MHz ones,
: with their large lumps of quartz usually produce better results than the
: more modern HF filters.... note that some filters had input
: transformers that were very poor for intermod performance.

What I've seen so far suggests that PINs suitable for front-end use aren't going to be of much use for switching at MF, be the application at IF, such as in switching crystal filters, or in a front end. But that's just a researchless opinion; maybe someone makes PINs with wildly long carrier lifetimes that will be just peachy for MF use.

And how about using JFETs as switches? Some of professional boxes do.

This is a tricky business, as you know. In a narrowband IF, second-order effects don't matter much because they're way outside the passband and because filters limit the spectrum applied to the IF input; third-order becomes all-important. Both orders are important in a front end.

If time allows, I want to go after another favorite radio weakness: In-passband IMD. I hate it when I listen to a CW radio and hear beats between two or more signals in the passband, but these effects are common. Quantifying them is necessary, though, because our hearing is nonlinear and our ears create beats to a degree that varies with the individual, and with the frequencies and sound levels involved.

David Newkirk, WJ1Z
Senior Assistant Technical Editor, *QST*

Date: Mon, 29 Aug 1994 14:17:47 GMT
From: psinntp!arrl.org!mtracy@uunet.uu.net
Subject: QST Subscription?
To: info-hams@ucsd.edu

Grady,

Here is a list of email addresses for ARRL HQ. You should send a note to the circulation manager, Debra Jahnke regarding your membership records. While writing this post, I did a quick check of our membership records to determine what your status was, but they show only one Grady Ward, from

Monterey, CA, whose call is KN6GR. I could not determine what your callsign was from your post (which said "k06eb") and the several guesses I made at the call that you meant to type didn't match anything in our database either.

ARRL EMAIL ADDRESSES

File: users.txt

Updated: August 26, 1994

The following ARRL HQ staffers, Officers, Directors and Vice Directors can be contacted directly via the Internet at the addresses shown. A brief description of the specific duties of the individual is included so you know who to contact.

People not listed do not have public email addresses and cannot respond by electronic mail. Other questions and messages to other specific HQ staff, Officers, Directors and Vice Directors should continue to be addressed to hq@arrl.org. Messages so addressed will be received in the "front office" here at ARRL HQ. They will be printed and distributed to the appropriate people by inter-office or postal mail.

You should include your postal address (the slow kind) with all correspondence to ARRL in case we need to send you non-electronic material in answer to your request.

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Contest Advisory Committee	cac@arrl.org
DXCC Desk	dxcc@arrl.org
Education Activities Department	ead@arrl.org
Outgoing QSL Bureau	buro@arrl.org
Ombudsman	ombudsman@arrl.org
QEX Magazine	qex@arrl.org
QST-Technical	qst@arrl.org
Radio Frequency Interference	rfi@arrl.org
Technical Information Service (Technical questions)	tis@arrl.org
Volunteer Examiner Coordinator	vec@arrl.org
W1AW	76067.3724@compuserve.com

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For any Officers, Directors or Vice Directors not listed, you can send email to hq@arrl.org or 2155052@mcimail.com, with a request that it be printed and mailed to the specific person.

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Perspective) columnist

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*eof

Date: 29 Aug 94 22:24:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: Ragchewing protocol
To: info-hams@ucsd.edu

Hi,

I became a ham in 1975 when I was 19 years old. I was the interested in the electronics aspects, homebrewing etc.

Over the years, I have grown fond of chatting to people, learning about others, the world I live in and soon.

These days, I never have talks about ham radio, DX, etc. I am happy to pick up the mike and talk to friends around the world on the way to work. I use a TS50 in the car.

What you do with ham radio is really up to you. Find a chat-pal somewhere and have fun. You certainly dont have to talk electronics, ham radio or whatever.

And as far as contests are concerned, I sincerely wish they did away with them. Whats is the point of 'working' stations just to exchange a number is beyond me. Oh well, at least contest weekends are great for avoiding the radio.

Peter, KC1QF/ON9CGV

Date: 28 Aug 1994 19:44:54 GMT
From: ping!usenet@uunet.uu.net
Subject: Route Z31ET
To: info-hams@ucsd.edu

In article <Zy9Sm+F.stevenolson@delphi.com>, stevenolson@delphi.com says:

>
>Am looking for QSL info on Z31ET.
>Macedonia. My Hamcall cd rom does not
>include Macedonia as yet.
>Steve W09L.

try Tod, Box 44, Kocani, Macedonia
73

Date: Sun, 28 Aug 1994 18:26:50 GMT
From: ihnp4.ucsd.edu!galaxy.ucr.edu!library.ucla.edu!csulb.edu!csus.edu!
netcom.com!greg@network.ucsd.edu
Subject: Why Some people hate Wayne Green
To: info-hams@ucsd.edu

In article <33dg3p\$8hv@search01.news.aol.com> wwhitby@aol.com (Wwhitby) writes:
>I don't hate anyone, let alone Wayne.

>
>What I dislike is: He rambles about the problems our country has, but he
>doesn't seem to actually put forth any physical effort to correct them. I
>work with teenagers, and it is a sore spot for people to talk about how
>bad this world is, but not actually do anything.

You don't consider publishing a monthly journal on the subject of
Amateur Radio, which is one of the better ways for aspiring techies
to hone their skills as being 'physical effort?'

Hmmm.

Perhaps you're suffering from the old tunnel vision of 'what *I* do
is necessary and productive, but what everyone else does is contributing
to the world's woes' syndrome.

Guess it ain't just those teenagers what think the world revolves around
them and their problems, what?

Greg

End of Info-Hams Digest V94 #973
